

**Notice of Allowability**

Application No.

09/826,427

Applicant(s)

CAVALLI, DIDIER

Examiner

Barry J. O'Brien

Art Unit

2183

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 7/08/04.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ The drawings filed on 09 July 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 20040914.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Woodson on 9/15/04.

The application has been amended as follows:

2. In claim 1, line 4, please delete the word "signal" from between the phrases "interrupt request" and "to the CPU".
3. In claim 1, line 12, please replace the phrase "interrupt request signal" with the phrase -- same interrupt request--.
4. In claim 1, line 17, please replace the phrase "interrupt request signal" with the phrase -- same interrupt request--.
5. In claim 1, line 21, please replace the phrase "interrupt request signal" with the phrase -- same interrupt request--.
6. In claim 3, line 4, please delete the word "signal" from between the phrases "interrupt request" and "was detected".
7. In claim 4, line 3, please delete the word "signal" from between the phrases "interrupt request" and "is provided".
8. In claim 7, line 7, please add the word "same" before the phrase "interrupt request".

Art Unit: 2183

9. In claim 7, line 10, please add the word "same" before the phrase "interrupt request".
10. In claim 7, line 12, please add the word "same" before the phrase "interrupt request".
11. In claim 10, line 3, please add the word "same" before the phrase "interrupt request".
12. In claim 11, line 10, please add the word "same" before the phrase "interrupt request".
13. In claim 11, line 14, please add the word "same" before the phrase "interrupt request".
14. In claim 11, line 18, please add the word "same" before the phrase "interrupt request".
15. In claim 17, line 9, please add the word "same" before the phrase "interrupt request".
16. In claim 17, line 12, please add the word "same" before the phrase "interrupt request".
17. In claim 20, line 3, please add the word "same" before the phrase "interrupt request".
  
18. The following is an examiner's statement of reasons for allowance: The Applicant's arguments regarding which interrupt request is verified are persuasive (see p.9-10 of the present amendment). The prior art of record has taught a system that detected an interrupt request, stored the register context, and then verified that the interrupt request signal was still valid before continuing on with interrupt processing (see Miu et al.). However, the prior art of record had not taught wherein the verification of the interrupt request was the verification of the same interrupt request originally detected. Thus, the above amendments to the claims overcome the rejection that had been made using the Miu et al. reference.
  
19. Furthermore, the prior art of record has taught the detection of interrupt request signal level changes, and then after some delay verifying that it is still at the previous level, with no determination of the source of the interrupt request. However, the prior art of record has not taught the detection of an interrupt request, the subsequent detection if the same interrupt request

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Art Unit: 2183

is still applied from the same interrupt request source after some delay, with the register context being saved during the delay. Therefore, in light of the above amendments, the claims are allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Barry J. O'Brien whose telephone number is (703) 305-5864. After October 12<sup>th</sup>, 2004, the examiner can be reached at (571) 272-4171. The examiner can normally be reached on Mon.-Fri. 6:30am-4:00pm, with the exception of first Friday of every bi-week.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached at (703) 305-9712, or at (571) 272-4162 on or after October 12<sup>th</sup>, 2004. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

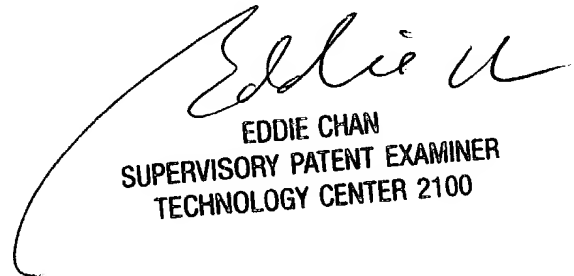
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Art Unit: 2183

21. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Barry J. O'Brien  
Examiner  
Art Unit 2183

BJO  
9/15/2004

  
EDDIE CHAN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

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